

Woodson County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/30/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 11 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Woodson County economy.¹

These 11 sectors have a total direct output of approximately \$75.4 million and support 331.7 jobs in Woodson County. Running the model for all 11 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Woodson County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional	Output ⁵	Output % of Gross Regional Product		
				Product ⁴		Troduct		
Direct Effect	331.7	20.30%	\$19,650,680	25.56%	\$75,370,461	98.03%		
Indirect Effect	46.1	2.82%	\$2,228,796	2.90%	\$6,025,100	7.84%		
Induced Effect	25.1	1.54%	\$1,280,988	1.67%	\$2,563,597	3.33%		
Total Effect	402.9	24.66%	\$23,160,464	30.12%	\$83,959,158	109.20%		

As shown in the above table, agriculture, food, and food processing sectors support **402.9 jobs**, or **24.66%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$84.0** million, roughly **109.20%** of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 11 agriculture, food, and food processing sectors is approximately \$23.2 million, or 30.12% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 30.12% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **244.8 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Woodson County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	244.8	\$44,174,269		
All other crop farming	46.9	\$5,339,346		
Grain farming	24.6	\$13,568,223		
Truck transportation	10.3	\$1,344,213		
Wholesale trade	7.7	\$1,394,733		
Real estate	6.8	\$502,818		
Oilseed farming	5.7	\$9,571,318		
Maintenance and repair construction of nonresidential structures	5.3	\$495,911		
Full-service restaurants	3.9	\$126,540		
Animal production, except cattle and poultry and eggs	3.6	\$697,072		

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately \$44.2 million to the Woodson County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	244.8	\$44,174,269		
Grain farming	24.6	\$13,568,223		
Oilseed farming	5.7	\$9,571,318		
All other crop farming	46.9	\$5,339,346		
Wholesale trade	7.7	\$1,394,733		
Truck transportation	10.3	\$1,344,213		
Meat processed from carcasses	1.9	\$998,390		
Owner-occupied dwellings	0.0	\$895,532		
Animal production, except cattle and poultry and eggs	3.6	\$697,072		
Poultry and egg production	0.6	\$667,271		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Woodson County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	5.7	\$9,571,317.67		
Grain farming	24.6	\$13,568,223.00		
Vegetable and melon farming	0.2	\$52,447.12		
Tree nut farming	0.0	\$1,149.14		
All other crop farming	46.9	\$5,339,345.93		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	244.8	\$44,174,266.82		
Poultry and egg production	0.6	\$667,271.08		
Animal production, except cattle and poultry and eggs	3.6	\$697,072.33		
Meat processed from carcasses	1.9	\$998,390.14		
Bread and bakery product, except frozen, manufacturing	1.8	\$179,221.76		
Veterinary services	1.8	\$121,753.54		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Woodson County, the retail sector was omitted.